

ATGGCTCTGGGGCCCCAACTGTGGCATCCTACTGTTTCTGGCTGTTTCTGGGTGTGGC  
CATCCCCAGGTTTCAAACCTCGGGAAGTCGAATCGTGGGAGGGCATGCTGCCCCAGC  
AGGCACATGGCCGTGGCAGGCTAGCCTCCGTCTGCACAAGGTGCACGTGTGTGGAG  
GCTCCCTGCTCAGTCCAGAATGGGTGCTCACAGCAGCCCACTGCTTCTCTGGGTCTG  
TGAACCTCGTCTGATTATCAGGTGCACTTGGGAGAGCTTACGGTCACACTGTCTCCCC  
ACTTCTCCACTGTAAAACGGATCATCATGTACACTGGCTCTCCAGGACCACCGGGGT  
CCAGTGGGGACATTGCCCTGGTGCAGCTGTCCTCCCCGGTGGCCCTTTCCAGCCAG  
GTCCAGCCTGTGTGCCTCCCAGAGGCCTCAGCTGACTTCTACCCTGGGATGCAGTGC  
TGGGTGACTGGCTGGGGCTATACAGGGGAGGGAGAGCCTCTGAAGCCCCCATACAA  
CCTTCAGGAGGCCAAAGTCTCTGTGGTGGATGTAAAGACCTGCAGCCAGGCTTACAA  
TAGTCCCAATGGCAGCCTCATCCAGCCAGACATGCTATGCGCCCCGGGGCCCTGGGG  
ATGCCTGCCAGGATGACTCTGGAGGGGCCACTAGTCTGCCAGGTGGCTGGAACCTGG  
CAGCAGGCCCGGCGTTGTCAGCTGGGGTGAGGGCTGTGGCCGCCCTGACCGCCCTG  
GCGTCTATGCCCGGGTTACTGCCTATGTAAACTGGATCCACCACCACATCCCGGAAG  
CAGGGGGCTCAGGAATGCAAGGGCTTCCCTGGGCTCCTCTCCTGGCTGCCCTCTTC  
TGGCCAAGCCTCTTCCTGCTGCTGGTCTCTGGAGTCCTGATGGCCAAGTACTGGCTG  
AGCTCTCCCTCCCACGCGGCCTCGGAACTCTGAATGAGGTGTAGCAACCAACCCAAG  
TGTCTTTCTTAAATAAGTTAGTGTTTATTAGTTTGCTTTGCCCTCCCCTCCCCTTAG  
CTTTGACTTAGGAAGCCAAAGTTTTCTGCATCAGATTATTGCAACATTTAACCTGAATT  
TGTAGAACGGATGACATAAAGCAAATGGATGTCAAAAAAAAAA (SEQ ID NO:1)

MALGPNCGILLFLAVSGCHPQVSNSSSRIVGGHAAPAGTWPWQ

ASLRLHKVHVCSSLLSPEWVLTAAHCFSGSVNSSDYQVHLGELTVTLSPHFSTVKRI

IMYTGSPGPPGSSGDIALVQLSSPVALSSQVQPVCLPEASADFYPGMQCWVTGWGYTG

EGEPLKPPYNLQEAKVSVVDVKTCQAYNSPNGSLIQPDMLCARGPGDACQDDSGGPL

VCQVAGTWQQAGVVSWECEGRPDTPGVYARVTAYVNWIIHHIPEAGGSGMQGLPWAP

LLAALFWPSLFLLLVSGVLMKYWLSSPSHAASEL (SEQ ID NO:2)

FIGURE 1

underlined = deleted in targeting construct

[ ] = sequence flanking Neo insert in targeting construct

ATGGCTCTGGGGCCCAACTGTGGCATCCTACTGTTTCTGGCTGTTTCTG [GGTGTGGCCA  
TCCCCAGGTTTCAAACCTCGGGAAGTCGAATCGTGGGAGGGCATGCTGCCCCAGCAGGCAC  
ATGGCCGTGGCAGGCTAGCCTCCGTCTGCACAAGGTGCACGTGT] GTGGAGGCTCCCTGC  
TCAGTCCAGAATGGGTGCTCACAGCAGCCCACTGCTTCTCTGGGTCTGTGAACTCGTCTG  
ATTATCAGGTGCACCTTGGGAGAGCTTACGGTCACACTGTCTCCCCACTT [CTCCACTGTA  
AAACGGATCATCATGTACACTGGCTCTCCAGGACCACCGGGGTCCAGTGGGGACATTGCC  
CTGGTGCAGCTGTCTCCCCGTGGCCCTTTCCAGCCAGGTCCAGCCTGTGTGCCTCCCA  
GAGGCCCTCAGCTGACTTCTACCCTGGGATGCAGTGTGGGTGACTGGCTGGGGCTATACA  
GGGGAGGGAG] AGCCTCTGAAGCCCCCATAACAACCTTCAGGAGGCCAAAGTCTCTGTGGT  
GGATGTAAAGACCTGCAGCCAGGCTTACAATAGTCCCAATGGCAGCCTCATCCAGCCAGA  
CATGCTATGCGCCCCGGGGCCCTGGGGATGCCTGCCAGGATGACTCTGGAGGGCCACTAGT  
CTGCCAGGTGGCTGGAACCTGGCAGCAGGCCGGCGTTGTCAGCTGGGGTGAGGGCTGTGG  
CCGCCCTGACCGCCCTGGCGTCTATGCCCCGGGTACTGCCTATGTAACTGGATCCACCA  
CCACATCCCGGAAGCAGGGGGCTCAGGAATGCAAGGGCTTCCCTGGGCTCCTCTCTGGC  
TGCCCTCTTCTGGCCAAGCCTCTTCTCTGCTGCTGGTCTCTGGAGTCCTGATGGCCAAGTA  
CTGGCTGAGCTCTCCCTCCCACGCGGCCCTCGGAACCTCTGAATGAGGTGTAGCAACCAACC  
CAAGTGTCTTTCTTAAATAAGTTAGTGTATTTCAGTTTGCTTTGCCCCCTCCCCTCCCCT  
TAGCTTTGACTTAGGAAGCCAAAGTTTCTGCATCAGATTATTGCAACATTTAACCTGAA  
TTTGTAGAACGGATGACATAAAGCAAATGGATGTCAAAAAAAAAA (SEQ ID NO:1)

Gene Sequence Structure \*

164 bp

Sequence Deleted

287 bp

Size of full-length cDNA: 1122 bp

FIGURE 2A

# **Targeting Vector\*** (genomic sequence)

Construct Number: 1607

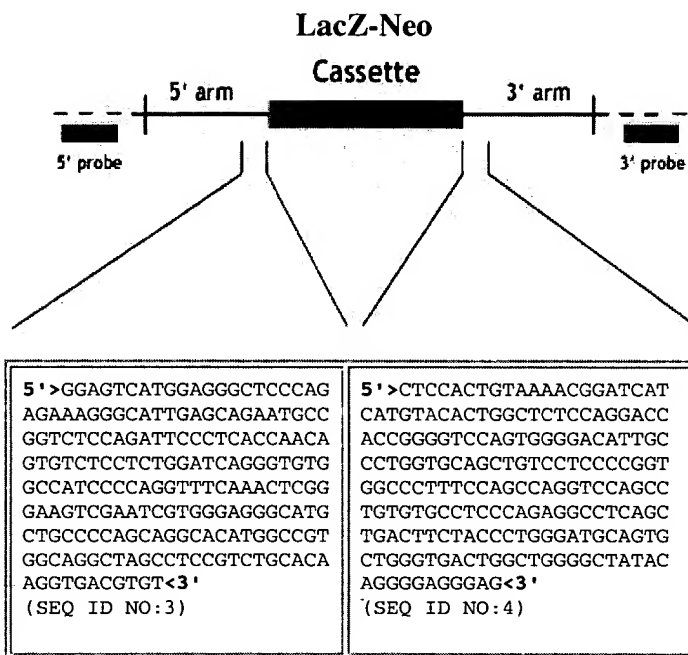
Arm Length:

5': 6 kb

3': 0.7 kb

———— Targeting Vector  
- - - - - Endogenous Locus

\* Not drawn to scale



**FIGURE 2B**

## necropsy - body weight

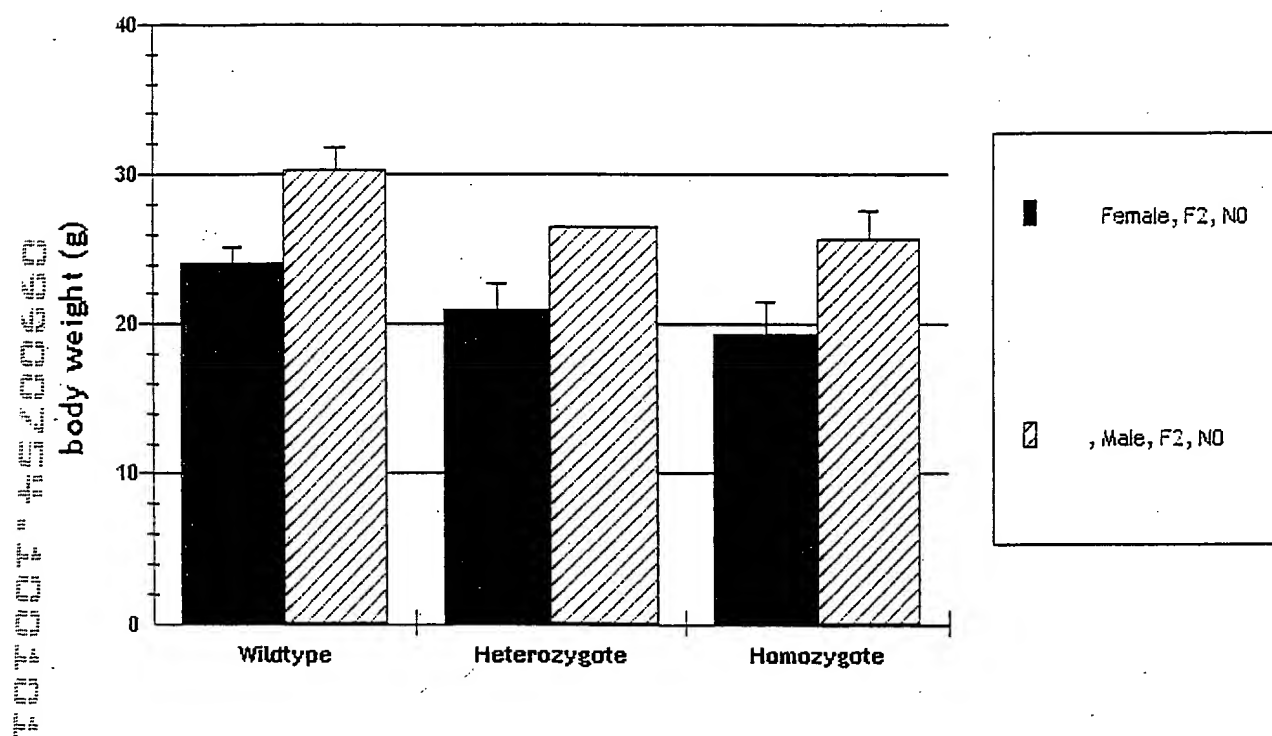


FIGURE 3

## necropsy - thymus weight/body weight

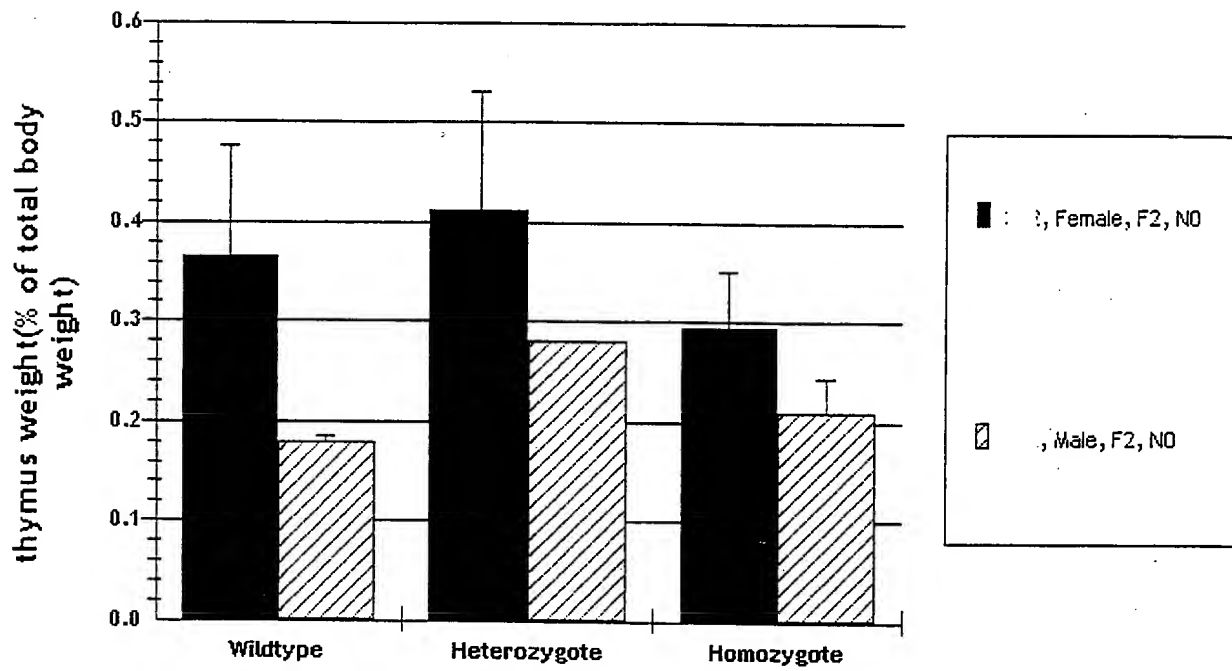


FIGURE 4

## Phenotypic Data Summary - Startle Response Amplitude

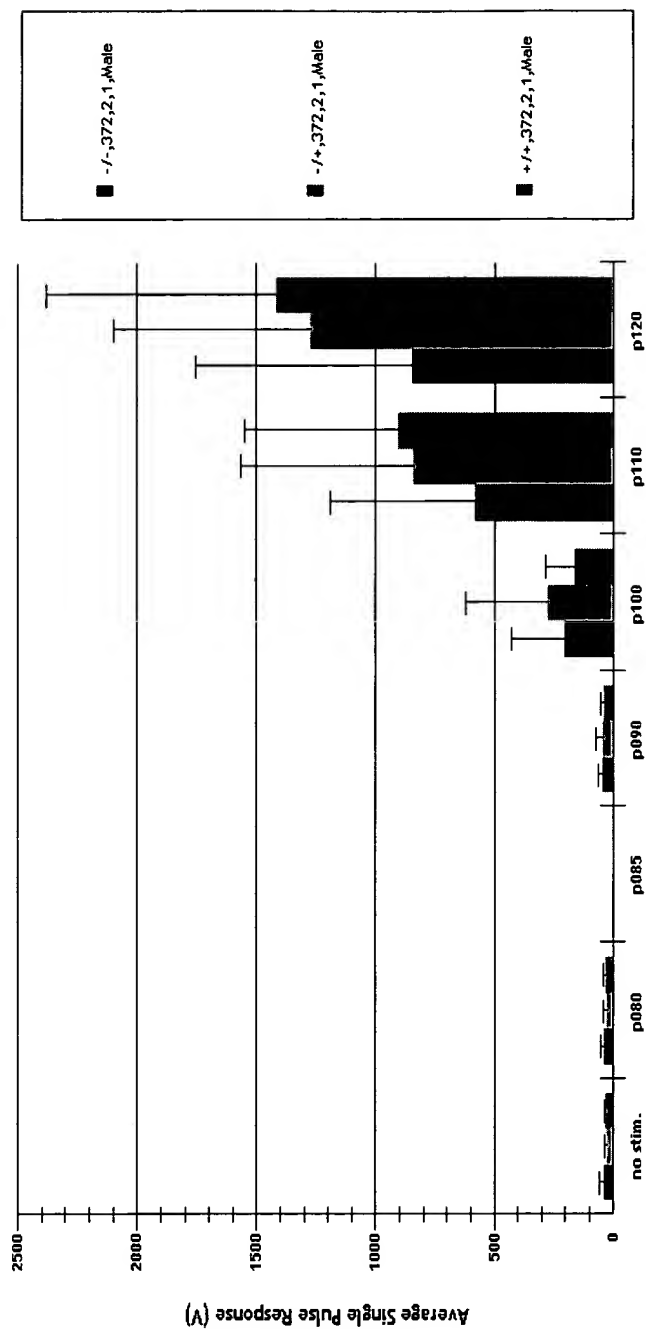


FIGURE 5